PAGE 5/8 * RCVD AT 6/17/2004 2:11:27 PM [Eastern Dayfight Time] * SVR:USPTO-EFXRF-115 * DNIS:8729306 * CSID:216 241 1666 * DURATION (mm-ss):02-12

Application Serial Number 10/666,750 Response to Office Action of June 1, 2004

-4-

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A lamp comprising:
- a hermetically sealed, light transmissive envelope;
- a tungsten filament within the envelope; and
- a mixture of inert gas, a halogen-containing compound, and a silicon-containing compound eapable of for gettering oxygen within the envelope, wherein the atomic ratio of silicon to halogen in the mixture is upto from 0.1 to about 0.5.
 - 2. (Cancelled)
- 3. (Original) The lamp of claim 2, wherein the atomic ratio of silicon to halogen is less than about 0.4.
- 4. (Original) The lamp of claim 2, wherein the atomic ratio of silicon to halogen is from 0.3 to 0.4.
- 5. (Original) The lamp of claim 1, wherein the silicon-containing compound is of the general formula $Si_aH_{((2a+2)-b)}X_b$, wherein a is an integer greater than zero, b is an integer which has a value between zero and (2a+1), and X is selected from the group consisting of Br, F, Cl, I, and combinations thereof.
- 6. (Original) The lamp of claim 5, wherein the silicon-containing compound includes a silane.
- 7. (Currently Amended) The lamp of claim 5 6, wherein the silane is selected from the group consisting of SiH₄, Si₂H₆, Si₃H₈, Si₄H₁₀, and combinations thereof.
- 8. (Currently Amended) The lamp of claim 75, wherein b is greater than zero and X is Br.
- 9. (Currently Amended) The lamp of claim 1, wherein the inert gas is includes a noble gas selected from the group consisting of xenon, argon, krypton, and combinations thereof.

PAGE 6/8 * RCVD AT 6/17/2004 2:11:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/5 * DNIS:8729306 * CSID:216 241 1666 * DURATION (mm-ss):02-12

Application Serial Number 10/666,750 Response to Office Action of June 1, 2004

- 10. (Original) The lamp of claim 9, wherein the inert gas further includes nitrogen.
- 11-12. (Cancelled).
- 13. (Currently amended) A lamp comprising:
 - a hermetically sealed, light transmissive envelope;
 - a tungsten filament within the envelope; and
- a mixture of inert gas, a halogen-containing compound, and a silicon-containing compound enpuble of for gettering oxygen within the envelope, wherein the silicon-containing compound is present in a sufficient amount to maintain a lumen per watt efficiency of at least 60% of that of an equivalent lamp formed without a silicon-containing compound.
- 14. (Original) The lamp of claim 13, wherein the lumen per watt efficiency is at least 80%.
- 15. (Original) The lamp of claim 13, wherein a lifetime of the lamp is at least 120% of that of the equivalent lamp formed without a silicon-containing compound.
- 16. (Currently amended) The lamp of claim 13, wherein the silicon-containing compound is of the general formula $Si_*H_{((2a+2)-b)}X_b$, wherein a is an integer greater than zero, b is an integer which has a value between zero and (2a+1), and X is selected from the group consisting of Br, F, Cl, I, and combinations thereof.
- 17. (Original) The lamp of claim 16, wherein the silicon-containing compound includes a silane.
- 18. (Currently Amended) The lamp of claim 167, wherein the silane is selected from the group consisting of SiH₄, Si₂H₆, Si₃H₈, Si₄H₁₀ and combinations thereof.
- 19. (New) The lamp of claim 1, wherein the atomic ratio of silicon to halogen is at least about 0.3.
 - 20 (New) A lamp comprising:
 - a light transmissive envelope;
 - at least one filament within the envelope, the at least one filament being formed from tungsten; and
- a fill gas sealed within the envelope and comprising an inert gas, a halogen-containing compound and a silicon-containing compound for gettering oxygen within the envelope, wherein the silicon-containing compound is present in a sufficient amount to maintain oxygen or an

PAGE 7/8 * RCVD AT 6/17/2004 2:11:27 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/5 * DNIS:8729306 * CSID:216 241 1666 * DURATION (mm-ss):02-12

Application Serial Number 10/666,750 Response to Office Action of June 1, 2004

oxygen containing compound for promoting the tungsten halogen cycle in the envelope during operation of the lamp.

-6-

21. (New) The lamp of claim 20, wherein the atomic ratio of silicon to halogen in the mixture is from 0.1 to about 0.5.